Datasheet

DLH HCSL THRU-HOLE CRYSTAL CLOCK OSCILLATOR

FEATURES

- Thru-hole DIL 14 package
- Excellent Phase Noise
- Many options available
- Applications : SONET, xDSL, SDH, Media box,...

20.7 x 13.1 x 5.08 mm

20.7 x 13.1 x 7.48 mm

Item	Specification		
Frequency Range	25 MHz ~ 200 MHz (in case needed higher frequency, please contact us)		
Output Signal	HCSL		
Overall Frequency Stability*	± 20 ppm ~ ± 100 ppm (see options)		
Operating Temperature Range	0 ~ +70°C commercial application (see options) -40 ~ +85°C industrial application (see options)		
Supply Voltage Vdd	+2.5V ±5%	+2.8V ±5%	+3.3V ±5%
Supply Current Idd	25 mA typ. ~ 100 mA typ.		
Output Voltage HIGH VOH	660 mV min. ; 740 mV typ. ; 850 mV max.		
Output Voltage LOW VOL	-150 mV min. ; 0 mV typ. ; 150 mV max.		
Output Load	100 ohm between output and complementary output		
Symmetry	45/55%		
Rise Time/Fall Time Fr/Ff	340 ps typ.		
Start-up Time	3 ms typ. ; 10 ms max.		
Integrated Phase Jitter (12 kHz to 20 MHz band)	200 fs typ.		
Packing unit	100 pcs/box		
	Customer specifications on request		

(*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging.

OPTIONS & ORDERING INFORMATION

DLH .... - ..... MHz

Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Package height	Frequency in MHz
25 = +2.5V	**A =** 0°/+50°C	**20 =** ±20 ppm	**F =** no Tri-state	**H1 =** 5.08 mm	Please specify the frequency in MHz
28 = +2.8V	**D =** -10°/+60°C	**25 =** ±25 ppm		**H2 =** 7.48 mm	
33 = + 3.3V	**E =** 0°/+70°C	**30 =** ±30 ppm			
	F = -20°/+70°C	**50 =** ±50 ppm			
	G = -30°/+75°C	**100 =** ±100 ppm			
	H = -30°/+85°C				
	K = -40°/+85°C				

* Note : Not all combinations are possible, please consult us.

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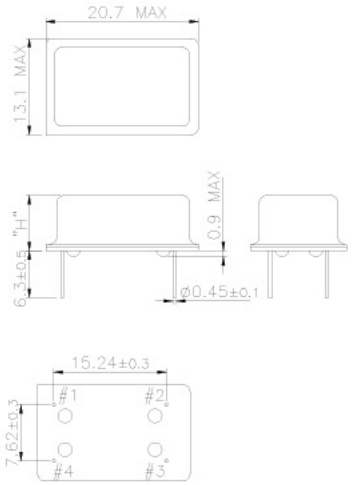
OUTLINE DIMENSIONS



Pin Connections	**#1** : Complementary output	**#2** : GND	**#3**: Output	**#4** : Vdd

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